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# FEDERAL-STATE COOPERATIVE SNOW SURVEYS and IRRIGATION WATER FORECASTS

for  
**COLORADO RIVER DRAINAGE BASIN**

February 1, 1949



by  
Division of Irrigation, Soil Conservation Service  
United States Department of Agriculture  
and  
Colorado Agricultural Experiment Station

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, National Park Service, State Engineers of Colorado, Wyoming and New Mexico and other Federal, State and local organizations.



WATER SUPPLY OUTLOOK  
Colorado River Drainage  
February 1, 1949

Snow accumulation on the headwaters of the Colorado River in Wyoming, Colorado and New Mexico has been much above average to February 1. Snow fall has been heaviest in Southwestern Colorado, up to twice the past average for this date. Relatively less has occurred on the Upper Colorado River and other tributaries. The valleys are snow-covered in all districts in Colorado and Wyoming. Soil moisture conditions are described as good to excellent throughout the basin.

Drought conditions have apparently been relieved in Arizona with the highest snow-water content on most courses since 1938. Reservoirs have been filling rapidly. Precipitation in valley areas has been above average.

COLORADO RIVER AND TRIBUTARIES  
IN COLORADO

Colorado River (Above Grand Junction): The snow cover on the Colorado River watershed above Grand Junction is 38 percent above normal and 21 percent over last year. The distribution of the snow over the watershed indicates somewhat less snow on the Roaring Fork and Blue River tributaries with heavier snow to the north of the main river. Snow on Grand Mesa is about 50 percent above normal for this date. However, it should be noted that about half of the snow on the watershed comes after February 1 on an average year and any estimate as to summer runoff must be subject to the snow that will come and other factors. If the present rate of snow accumulation continues the runoff of all Colorado River tributaries will be well above normal next snow-melt season. Current stream flow is reported as about normal. Valley areas are snow covered.

Gunnison River: The water supply situation on the Gunnison is favorable. Average snow-water content is 47 percent above normal and 49 percent more than a year ago. Recent precipitation has been high and range and crop conditions are reported as excellent. Storage in Taylor Reservoir is now 61,600 acre-feet, as compared to 91,000 on February 1, 1948.

Yampa and White Rivers: Snow-water content measured on the headwaters of the Yampa River is 61 percent above normal and 47 percent over a year ago. The valley areas are snow-covered and recent precipitation has been above normal with heavy snow in Moffat County. On the White River watershed the snow cover is somewhat less, probably 15 percent above normal and also 15 percent more than a year ago. The White River has relatively the least snow cover of the Colorado River tributaries up to February 1.



San Juan and Animas Rivers: Snow fall has been very heavy throughout the San Juan Basin at all elevations. Snow-water contents measured on all courses average 88 percent above normal for the San Juan Basin. On the Animas River water contents are exactly 100 percent above the average for February 1. Soil moisture conditions are excellent. Vallecito Reservoir on the Pine River has in storage 57,500 acre-feet as compared to 72,000 a year ago. Stream flow is below normal due to low temperatures.

Dolores River: On the headwaters of the Dolores and San Miguel Rivers, the snow cover is over twice normal and over twice that a year ago. At Lizzard Head Pass, the snow-water content is 21 inches; 4 inches above the average for April 1. Soil moisture in the Cortez area is good. Precipitation has been above normal. Storage in reservoirs is down due to low stream flow,

#### COLORADO RIVER AND TRIBUTARIES IN ARIZONA

The water supply outlook for Arizona is much improved after a drought covering three seasons. The snow on practically all courses is more than at any time since snow surveys were started in 1938. Precipitation has been above normal in the Salt River Valley and soil moisture, crop and range conditions are reported as good. Reservoirs are filling rapidly and a high snow-melt flow is expected. On February 1, stream flow was reported for the following rivers in second-feet as follows:

SALT: 353          TONTO: 325          VERDE: 493.

The flow of the Gila River is above normal. The Blue and San Francisco Rivers, tributaries to the Salt, were in flood stage in mid-January. Storage in the four major reservoirs on the Salt River is 308,000 acre-feet as compared to 231,000 a year ago. San Carlos Reservoir had 144,500 acre-feet in storage on January 1. Last year it was empty at this time, and on January 15, 1949 the storage was 32,000 acre-feet.

Net storage in Lake Mead on January 15, 1949 was 19,489,000 acre-feet. On February 1, 1948 it was 19,866,000.

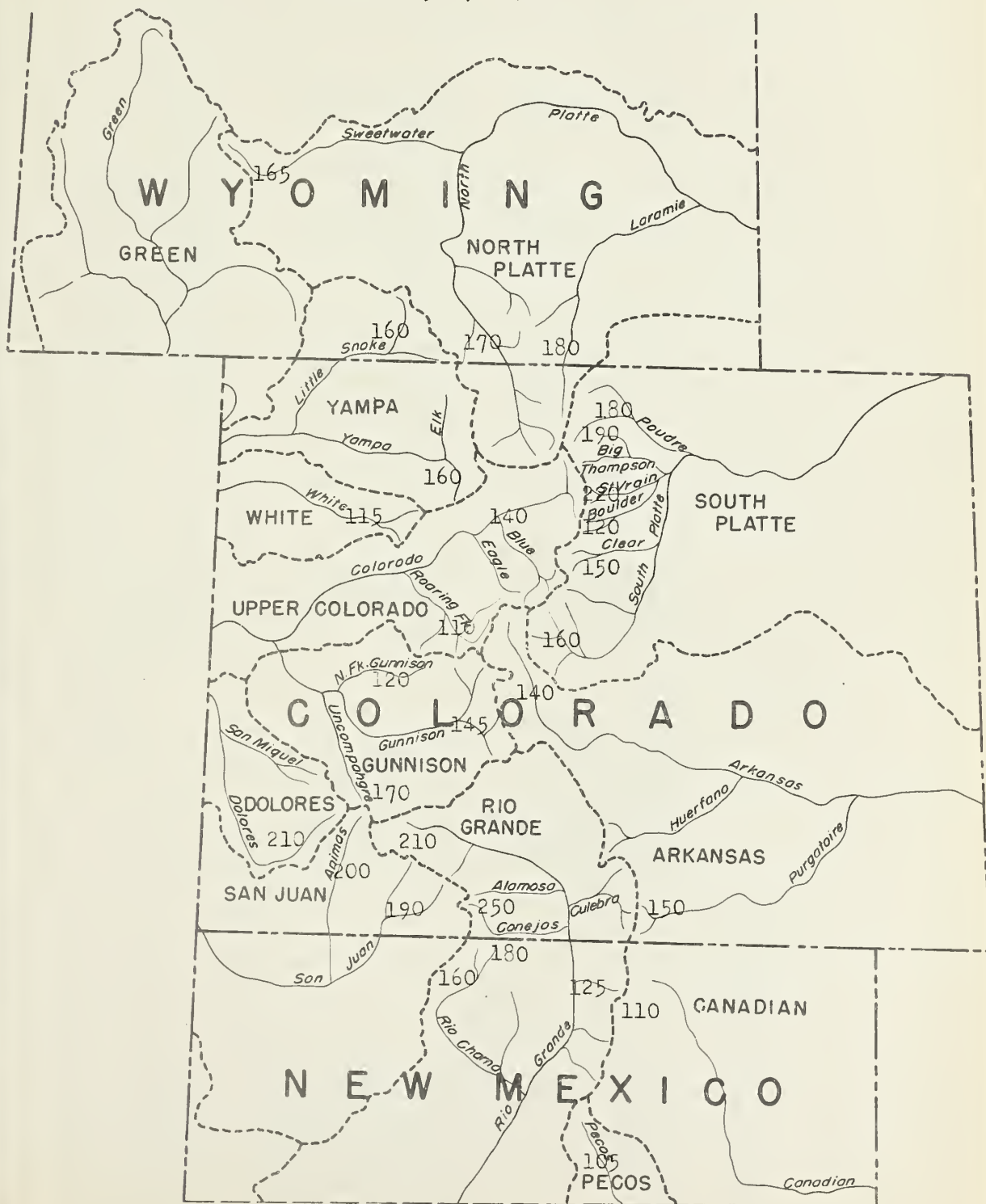






WATER CONTENT OF SNOW ON THE WATERSHEDS OF  
PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS  
BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal  
February 1, 1949





# SNOW SURVEYS AND IRRIGATION WATER FORECASTS

## COLORADO RIVER BASIN

### STATUS OF RESERVOIR STORAGE, FEBRUARY 1, 1949

BASIN AND STREAM	RESEVOIR	USABLE CAPACITY (Thous. A. Ft.)	THOUSANDS ACRE FEET IN STORAGE About February 1				
			1949	1948	1947	1946	10-year Avg. 1938-47*
COLORADO DRAINAGE							
Taylor River	Taylor Park	106.2	61.6	91.0	66.5	82.5	57.6
Los Pinos River	Vallecito	126.3	57.5	72.0	57.3	38.6	37.0
Groundhog Creek	Groundhog	21.7	6.0	10.0	---	8.5	10.5
Blue River	Green Mountain	146.9		88.7	86.0	72.0	52.4
Colorado River	Lake Mead	27935.0	19489.0**	19866.0	17207.0	---	19236.0
Colorado River	Lake Havasu	688.0	592.0**	598.3	626.6	---	538.9
SALT AND GILA DRAINAGE							
Salt River	Roosevelt	1420.0	159.4	41.2	169.9	476.4	531.7
"	Horse Mesa	245.0	103.8	150.4	208.1	223.3	189.1
"	Mormon Flat	58.0	19.8	23.8	31.9	21.4	27.9
"	Stewart Mt.	70.0	25.3	16.1	14.5	7.1	14.2
Verde River	Bartlett	200.0	34.0**	3.7	---	7.8	47.3
Aqua Fria River	Carl Pleasant	173.0	7.0**	0.8	2.9	3.4	15.7
Gila River	San Carlos	1200.0	144.4	0.0	17.0	26.1	213.0

\*Some for shorter periods

\*\*Net Storage, Jan. 15, 1949.

\*Some for shorter periods  
 \*\*Net Storage, Jan. 15, 1949.



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SNOW SURVEYS AND IRRIGATION WATER FORECASTS  
for

COLORADO RIVER BASIN  
February 1, 1949  
SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS  
BY WATERSHEDS

WATERSHEDS	Snow Depth		Water Content		Number Courses in Average	Snow Density		1949 water Content in percent of	
	Thirteen year Avg.*	1948	1949	1948		Thirteen year Avg.*	1948	1949	Thirteen year Avg.*
COLORADO RIVER	In.	In.	In.	In.		Percent	Percent	Percent	
Colorado River**	35.6	41.0	41.8	9.3	11	23	23	27	138
Roaring Fork	40.0	45.4	41.0	9.6	1	24	21	26	111
Yampa River	50.0	48.2	67.2	12.9	3	26	29	31	161
White River	42.3	39.7	41.5	10.3	1	24	26	28	113
Gunnison River	33.5	31.1	43.4	7.5	7	22	24	25	147
Dolores River	28.0	24.8	40.2	6.0	3	22	24	31	207
San Juan River	32.6	31.3	57.1	8.1	7	25	25	27	188
Animal River	26.0	26.2	43.7	5.7	3	22	21	26	200
Gila River	10.7	6.8	29.6	2.6	4	24	24	27	308
Salt River	9.3	3.1	23.5	2.4	5	26	26	27	262
Verde River	4.4	4.1	40.9	1.0	6				
Little Colo. River	8.7	3.0	21.6	2.3	3				
Williams River	0.0	0.0	28.1	0.0	3				

\*Some for shorter periods.

\*\*above Grand Junction

P R E C I P I T A T I O N   D A T A

WATERSHED	STATE	Precipitation*		Departure from Normal		Precipitation*		Departure from Normal	
		October 1 to January 31	Inches	October 1 to January 31	Inches	January	Inches	January	Inches
Colorado	Colorado		7.50			2.72			1.24
Green	Wyoming		3.87			1.14			40.50
San Juan	New Mexico		4.64			1.93			1.09
Colorado	Arizona		6.98			3.43			1.97
Gila	Arizona		7.73			3.54			1.93

The accumulated precipitation since October 1 over the watershed of the Colorado River was above normal.  
Precipitation was above normal over the entire drainage basin for January.

\*Precipitation tentative.





COLORADO RIVER DRAINAGE STUDY SURVEYS

February 1, 1949

Drainage Basin and Snow Course	Location			Range	Elec.	Date of Survey	Snow Depth (Inches)	Snow Cover Measurements			Past Record Yrs. of Av. Water Content (Inches)
	No. and State	Sec.	Typ.					Water Content (Inches)		Yrs. of Rec.	
COLORADO RIVER											
(above Grand Junction)											
Cameron Pass*	1 Colo.	2	6N	76W	10300	1/27	50.7	16.5	14.2	10	11.3
Park View*	7 "	24	5N	78W	9200	1/27	37.4	8.6	6.8	11	5.1
Phantom Valley	12 "	7	5N	75W	9300	1/31	37.8	10.2	4.8	13	5.2
Hoosier Pass	14 "	13	8S	78W	11400	1/31	35.3	8.3	5.4	10	5.7
Berthoud Pass	16 "	35	2S	75W	9700	1/31	42.9	10.4	6.8	13	8.7
Tennessee Pass	19 "	21	8S	80W	10200	1/30	32.6	6.8	5.2	13	4.6
Ind. Pass Tunnel	33 "	30	11S	82W	10200	2/1	41.0	10.5	11.5	13	9.5
N. Lost Trail Cr.	34 "	20	11S	87W	9200	---	--	---	8.4	12	7.3
N. Fork Camp Gr.	37 "	16	3S	77W	9000	2/3	32.3	6.9	5.3	12	5.7
Fiddler Gulch	44 "	1	8S	80W	11000	2/1	44.0	12.0	9.3	12	8.0
Nast	45 "	1	9S	83W	8700	2/1	26.0	5.6	4.9	12	3.9
Mesa Lakes	56 "	35	11S	96W	10000	2/1	45.1	12.9	10.0	12	9.0
Lulu	59 "	25	6N	76W	10200	1/31	48.5	15.2	9.2	9	10.4
Willow Creek P.	62 "	1	4N	78W	9500	1/27	44.7	12.4	8.0	9	6.8
N. Inlet Grand L.	64 "	26	4N	75W	9000	1/28	33.4	9.1	5.6	10	4.9
Lake Irene	65 "	8	5N	75W	10600	1/30	57.1	19.3	13.6	10	11.9
Thunderbolt Peak	66 "	22	2N	74W	9500	2/4	57.9	18.1	12.4	10	9.6
Arrow	69 "	34	1S	75W	9900	1/31	35.7	7.5	5.6	10	5.0
Lapland	70 "	16	2S	76W	9300	2/1	35.6	7.3	6.0	8	5.8
Fremont Pass #2	79 "	2	8S	79W	11400	1/27	43.3	10.5	9.0	13	8.2
Trickle Divide	85 "	23	11S	94W	10000	---	--	---	21.1	9	15.4
Lynx Pass	91 "	27	2N	83W	9100	1/31	40.6	11.6	6.6	12	7.3
Shrine Pass	96 "	15	6S	79W	10500	1/27	42.4	10.9	7.5	7	9.2
Grizzly Peak	97 "	2	5S	76W	11250	1/28	44.1	13.0	9.9	7	9.3
Ivanhoe	100 "	12	9S	82W	10400	1/31	45.1	13.7	8.1	3	8.0
Glen-Mar Ranch	102 "	31	12S	77W	8850	2/2	33.8	7.5	6.1	1	6.1
Monarch Lake	106 "	30	2N	94W	8500	---	--	---	---	---	---
Granby	113 "	11	2N	77W	8700	1/28	29.4	6.4	---	---	---
Grand Lake	127 "	36	4N	75W	8600	1/31	35.4	8.7	---	---	---
Average for drainage								41.8	8.5	8.5	8.1

\*On adjacent drainage



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## COLORADO RIVER SNOW SURVEYS

February 1, 1949

Drainage Basin and Snow Course		Location					Snow Cover Measurements						
		No. and State	Sec.	Twp.	Range	Elev.	Date of Survey	Snow Depth (Inches)	Water Content (Inches)			Yrs. of Rec.	Past Record Average Content(Inches)
									1949	1948	1947		
YAMPA RIVER	6 Colo.	26	7N	84W	8200	2/1	50.5	16.1		8.8		8	10.1
	8 "	21	5N	82W	9300	2/1	61.0	19.6	15.8	10.9		13	12.9
	9 "	6	10N	85W	8700	2/1	49.3	14.5	8.9	10.1		10	8.7
	91 "	27	2N	83W	9100	1/31	40.6	11.6	--	6.6		12	7.3
	9 Wyo.	29	14N	85W	9800	1/26	91.3	28.1	17.7	21.2		11	17.0
			Average for drainage				67.2	20.8	14.1	14.1			12.9
WHITE RIVER	35 Colo.	15	2S	91W	9000	1/31	41.5	11.6	10.3	10.8		13.	10.3
	36 "	28	1N	88W	8500	2/1	48.4	14.4	10.3	10.2		9	8.5
			Average for drainage				41.5	11.6	10.3	10.8			10.3
ROARING FORK	Ind. Pass Tunnel	30	11S	82W	10200	2/1	41.0	10.5	9.6	11.5		13	9.5
	N. Lost Trail Cr.	20	11S	87W	9200					8.4		12	7.3
	45 " Nast	1	9S	83W	8700	2/1	26.0	5.6	--	4.9		12	3.9
	100 " Ivanhoe	12	9S	82W	10400	1/31	45.1	13.7	9.0	8.1		3	8.0
				Average for drainage				41.0	10.5	9.6	11.5		
GUNNISON RIVER	18 Colo.	22	13S	86W	9000	2/1	40.2	9.9	5.7	6.1		13	7.0
	42 "	24	48N	6E	10800	1/30	39.1	10.1	5.8	5.2		13	6.6
	43 "	19	48N	7E	10500	1/30	33.2	9.1	6.2	4.3		13	6.2
	46 "	19	14S	82W	9700	1/31	37.4	8.0	5.4	4.9		13	4.6
	Alexander Lake	2	12S	25W	10000	2/2	61.4	17.7	13.5	17.8		12	12.4
	Snowshoe Mesa	14	13S	89W	7500	1/30	30.1	6.9	--	3.9		11	5.7
	Ironton Park	29	43N	7W	9800	1/29	44.0	11.6	6.2	5.0		12	6.9
	Trickle Divide	23	11S	94W	10000	--	--	--	15.0	21.1		9	15.4
	Park Reservoir	34	11S	94W	9500	--	--	--	14.0	20.1		9	14.4
	Porphyry Creek	19	49N	6E	10800	1/29	48.6	10.9	9.0	7.1		9	8.6
	Lake City	13	43N	4W	10300	2/1	34.3	7.5					
	Spring Cr. Pass	2	42N	3W	10900								
	Cochetopa Pass	12	45N	3E	10000	2/2	26.1	5.0		7.2			7.5
				Average for Drainage				43.4	11.0	7.4			

\*On adjacent drainage

\*On adjacent drainage

1. The first part of the report is a general introduction to the subject of the study.

2. The second part of the report is a detailed description of the methods used in the study.

3. The third part of the report is a presentation of the results of the study.

4. The fourth part of the report is a discussion of the results and their implications.

5. The fifth part of the report is a conclusion and a list of references.

6. The sixth part of the report is a list of appendices.

7. The seventh part of the report is a list of figures and tables.

8. The eighth part of the report is a list of footnotes.

9. The ninth part of the report is a list of acknowledgments.

10. The tenth part of the report is a list of references.

11. The eleventh part of the report is a list of appendices.

12. The twelfth part of the report is a list of figures and tables.

13. The thirteenth part of the report is a list of footnotes.

14. The fourteenth part of the report is a list of acknowledgments.

LOCATION

SNOW COURSE MEASUREMENTS

Drainage Basin and Snow Course	No. and State	Sec.	Twp.	Range	Elev.	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	1947	Yrs. of Record	Past Record
COLORADO RIVER											
SAN JUAN RIVER								In.	In.		
Holf Creek Pass*	26 Colo.	4	37N	2E	10000	1/31	91.5	27.2	16.1	9	14.3
Upper San Juan	29 "	10	37N	1E	10000	1/31	108.3	31.3	16.7	9	16.5
Silverton Sub.S.	30 "	10	41N	7W	9400	1/31	24.4	6.1	4.3	10	3.6
Cascade	31 "	12	39N	9N	8850	1/31	62.7	16.6	6.8	10	6.5
Granite Peaks	93 "	24	37N	6W	7950	1/31	41.0	8.3	1.5	7	5.8
Chama Divide*	17 N.Mex.		36.9N	106.7W	7750	1/31	31.1	6.7	2.8	9	4.1
Chamita*	18 "		36.9N	106.7W	8500	2/1	40.5	10.0	6.5	7	5.9
			Average for Drainage				57.1	15.2	7.8		8.1
ANIMAS RIVER											
Silverton Sub.S.	30 Colo.	10	41N	7W	9400	1/31	24.4	6.1	4.3	10	3.6
Cascade	31 "	12	39N	9N	8850	1/31	62.7	16.6	6.8	10	6.5
Ironton Park	58 "	29	43N	7W	8700	1/29	44.0	11.6	5.0	12	6.9
			Average for Drainage				43.7	11.4	5.4		5.7
DOLORES RIVER											
Rico	23 Colo.	11	39N	11W	8700	2/3	31.5	8.5	4.2	9	5.4
Telluride	24 "	6	42N	8W	8600	1/31	34.8	7.8	3.8	10	4.6
Lizard Head	25 "	24	41N	10W	10300	2/3	54.2	20.9	6.3	10	8.1
Trout Lake	114 "	8	41N	9W	9700	1/31	57.7	11.8			
			Average for Drainage				40.2	12.4	4.8		6.0
GILA RIVER											
Frisco Divide	11 N.Mex.	21	6S	20W	8000	1/31	24.1	5.8	1.1	11	2.2
State Line	14 "	6	6S	21W	8000	1/31	28.8	7.7	1.8	11	2.8
Taylor Creek	22 "	20	10S	10W	7850		--	--	1.1	7	0.9
Imman	23 "	6	11S	10W	7800		--	--	0.6	3	1.2
Nutriosio	3 Ariz.	23	6N	30E	8500	1/31	29.1	8.1	1.6	11	2.2
Beaver Head	4 "	13	4N	30E	8000		--	--	1.6	11	
Coronado Trail	5 "	26	5N	30E	8000	1/31	36.3	10.5	2.2	11	3.4
			Average for Drainage				29.6	8.0	1.7		2.6
SALT RIVER											
McMurry	6 Ariz.	14	8N	23E	7200	1/31	21.5	5.5	3.2	10	3.3
Forestdale	7 "	2	9N	21E	6000	1/31	14.3	3.8	1.1	8	1.4
Milk Ranch	9 "	28	8N	23E	7000	1/31	16.5	3.8	1.4	8	1.9
Nutriosio*	3 "	23	6N	30E	8500	1/31	29.1	8.1	1.6	11	2.2
Coronado Trail*	5 "	26	5N	30E	8000	1/31	36.3	10.5	2.2	11	3.4
			Average for drainage				23.5	6.3	1.9		2.4

\*On adjacent drainage

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## COLORADO RIVER SNOW SURVEYS

February 1, 1949

Drainage Basin and Snow Course	Location			Snow Course Measurements								
	No. and State	Sec.	Twp.	Range	Elev. of Survey	Date of Survey	Snow Depth (Inches)	Water Content (Inches)			Years of Record	Past Record of Av. Water Content (Inches)
								1949	1948	1947		
								In.	In.	In.		
COLORADO RIVER												
VERDE RIVER												
Iron Springs*	11 Ariz.	22	14N	3W	6200	1/29	32.5	9.6	0	0	3	0
Camp Wood	12 "	3	16N	6W	5700	2/1	32.7	8.6	0	0	3	0
Mingus Mountain	"	3	15N	2E	7100	2/1	35.6	10.4	0	0	2	0
Mormon Lake*	"	13	18N	8E	7350	2/1	66.8	20.0	3.8	3.4	2	3.6
Fort Valley*	"	22	22N	6E	7350	2/1	38.8	10.2	0.3	1.0	2	2.0
Chalender*	"	27	22N	3E	7100	2/1	38.9	10.8	2.6	1.4	2	2.0
			Average for Drainage				40.9	11.6	1.1	1.0		1.0
LITTLE COLORADO RIVER												
Forest Dale*	7 Ariz.	2	9N	21E	6000	1/31	14.3	3.8	0.5	1.1	8	1.4
McNary	6 "	14	8N	23E	7200	1/31	21.5	5.5	0.8	3.2	10	3.3
Nutriosos*	3 "	23	6N	30E	8500	1/31	29.1	8.1	1.0	1.6	11	2.2
Mormon Lake	"	13	18N	8E	7350	2/1	66.8	20.0	3.8	3.4	2	3.6
Fort Valley	"	22	22N	6E	7350	2/1	38.8	10.2	0.3	1.0	2	0.6
Bright Angel	Ariz.	34	33N	3E	8400	2/1	48.7	12.7	5.0	--	1	--
Grand Canyon	Ariz.	21	30N	4E	75.0	2/1	32.4	8.7	0.9	--	1	--
			Average for Drainage				21.6	5.8	0.8	2.0		2.3
WILLIAMS RIVER												
Iron Springs	11 Ariz.	22	14N	3W	6200	1/29	32.5	9.6	0	0	3	0.
Camp Wood*	12 "	3	16N	6W	5700	2/1	32.7	8.6	0	0	3	0
Willow Ranch	"	16	21N	11W	5000	1/29	19.0	6.0	0	--	2	0
			Average for Drainage				23.1	8.1	0	0		0

\*On adjacent drainage

[illegible][illegible][illegible][illegible][illegible]



The following organizations cooperate in the snow surveys and irrigation water supply forecasts for the Colorado-Missouri-Arkansas and Rio Grande watersheds by furnishing funds or services.

#### STATE

Colorado State Engineer  
Wyoming State Engineer  
Utah State Engineer  
New Mexico State Engineer  
Montana State Engineer  
Nebraska State Engineer  
Colorado Experiment Station  
Colorado Extension Service  
Montana Experiment Station  
Utah Experiment Station

#### FEDERAL

Department of Agriculture  
Forest Service  
Soil Conservation Service  
Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service  
Department of Commerce  
Weather Bureau  
War Department  
Army Engineer Corps

#### PUBLIC UTILITIES

Colorado Public Service Company  
Western Colorado Power Company  
Montana Power Company  
Public Service Company of New Mexico  
Denver and Rio Grande Western R. R. Company

#### MUNICIPALITIES

City of Bozeman  
City of Denver  
City of Boulder

#### WATER USERS ORGANIZATIONS

Poudre Valley Water Users' Association  
Arkansas Valley Ditch Association  
Colorado River Water Conservation District

#### IRRIGATION PROJECTS

Farmers Reservoir and Irrigation Company  
San Luis Valley Irrigation District  
Santa Maria Reservoir Company  
Costilla Land Company  
Uncompahgre Valley Water Users' Association  
Wyoming Development Company  
Goshute Irrigation District  
Mendrick Project  
Bethfinder Irrigation District  
Salt River Valley Water Users' Association  
San Carlos Irrigation and Drainage District  
Fawn Lake Reservoir and Canal Company

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